

Appl. No.: 10/505,302
Reply to Office Action of: 09/11/2006

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) Optical interconnection module comprising a package provided with at least one optical section interposed between an input optical port of the module and an output optical port of the module, characterized in that the package comprises an overmolded housing, wherein the optical section is overmolded in the package housing and forms an optical waveguide, in that the optical fiber section comprises at least one flared cone getting enlarged at one end of the section and forming an optical input/output section, and in that the optical section comprises an end lens, wherein the optical section comprises a portion having a diameter which is smaller than a diameter of the flared cone along a length of the housing.
2. (Previously presented) A module according to claim 1, characterized in that the lens is formed by overmolding.
3. (Previously presented) A module according to claim 1, characterized in that the package is made of a material that has an optical refraction index lower than an optical refraction index of an overmolded material forming the optical section.
4. (Previously presented) A module according to claim 1, characterized in that the lens is made of a same material as that of the optical section.

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5. (Currently amended) A module according to claim 1, characterized in that the package comprises a polymer material with efficient thermal behavior ~~such as, for example, of~~ an LCP, or a polyimide.
6. (Previously presented) A module according to claim 1, characterized in that the package is metallized.
7. (Previously presented) A module according to claim 1, characterized in that the package has a pedestal with gripping grooves.
8. (Previously presented) A module according to claim 1, characterized in that the overmolded optical section is curved to lead into a plane.
9. (Previously presented) An optical ferrule comprising a module according to claim 1, characterized in that the input optical port has a standardized receptacle.
10. (Previously presented) An optical ferrule comprising a module according to claim 1, characterized in that it comprises an electronic integrated circuit for the detection or emission of light rays, the integrated circuit being mounted by reflow soldering of solder beads on the package.
11. (New) Optical interconnection module comprising a housing provided with at least one optical section interposed between an input optical port of the module and an output optical port of the module, the optical section providing an optical waveguide, said optical section being overmolded in the housing and further comprising at least one flared cone getting enlarged at the input optical port or the output

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optical port, wherein the optical section comprises a diameter or a section smaller than that one of the flared cone along the length of the housing and wherein said flared cone includes an end lens.